

|  |  |                                  |                          |
|--|--|----------------------------------|--------------------------|
| FORM PTO-1449  |  | ATTY. DOCKET NO.<br>I-2-0388.1US | SERIAL NO.<br>10/679,804 |
| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  | APPLICANT<br>Hunkeler et al.     |                          |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT           |  | FILING DATE<br>October 6, 2003   | GROUP<br>2461            |
| (Use several sheets if necessary)                          |  |                                  |                          |

| U.S. PATENT DOCUMENTS |  |                 |         |                              |       |          |                            |
|-----------------------|--|-----------------|---------|------------------------------|-------|----------|----------------------------|
| EXAMINER INITIAL      |  | DOCUMENT NUMBER | DATE    | NAME                         | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|                       |  | 6,005,852       | 12/1999 | Kokko et al.                 |       |          |                            |
|                       |  | 6,205,125       | 03/2001 | Proctor et al.               |       |          |                            |
|                       |  | 6,374,112       | 04/2002 | Widegren et al. <sup>3</sup> |       |          |                            |
|                       |  | 6,393,286       | 05/2002 | Svensson                     |       |          |                            |
|                       |  | 6,693,912       | 02/2004 | Wang                         |       |          |                            |
|                       |  | 6,771,964       | 08/2004 | Einola et al. <sup>2</sup>   |       |          |                            |
|                       |  | 6,859,654       | 02/2005 | Reynolds et al.              |       |          |                            |
|                       |  | 6,876,667       | 04/2005 | Synnestvedt et al.           |       |          |                            |
|                       |  | 7,123,910       | 10/2006 | Lucidarme et al.             |       |          |                            |
|                       |  | 7,149,524       | 12/2006 | Reynolds <sup>1</sup>        |       |          |                            |
|                       |  | 7,206,324       | 04/2007 | Persson et al.               |       |          |                            |
|                       |  | 7,483,984       | 01/2009 | Jonker et al.                |       |          |                            |
|                       |  | 2002/0037749    | 05/2002 | Wager                        |       |          |                            |
| *                     |  | 2002/0123340    | 09/2002 | Park                         |       |          |                            |
|                       |  | 2002/0132611    | 09/2002 | Immonen et al.               |       |          |                            |
|                       |  | 2003/0074443    | 04/2003 | Melaku et al.                |       |          |                            |

| FOREIGN PATENT DOCUMENTS |  |                 |         |         |       |          |             |
|--------------------------|--|-----------------|---------|---------|-------|----------|-------------|
| EXAMINER INITIAL         |  | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
|                          |  |                 |         |         |       |          | YES NO      |
|                          |  | 1 154 599       | 11/2001 | EP      |       |          |             |
|                          |  | 00/41401        | 07/2000 | WO      |       |          |             |
|                          |  | 00/78081        | 12/2000 | WO      |       |          |             |
|                          |  | 01/01729        | 01/2001 | WO      |       |          |             |
|                          |  | 01/76286        | 10/2001 | WO      |       |          |             |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|  |                                  |                          |
|--|----------------------------------|--------------------------|
| FORM PTO-1449  | ATTY. DOCKET NO.<br>I-2-0388.1US | SERIAL NO.<br>10/679,804 |
| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |                                  |                          |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT           |                                  |                          |
| (Use several sheets if necessary)                          |                                  |                          |
| APPLICANT<br>Hunkeler et al.                               |                                  |                          |
| FILING DATE<br>October 6, 2003                             |                                  |                          |
| GROUP<br>2461  |                                  |                          |

| OTHER DOCUMENTS  |   |  |
|------------------|---|--|
| EXAMINER INITIAL | DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)  |  |
|                  | "Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications." 12 June 2003. ANSI/IEEE Std 802.11, 1999 Edition (R2003).                      |  |
|                  | "Third Generation Partnership Project; Technical Specification Group Services and System Aspects Service aspects: Services and service capabilities (Release 6)." 3GPP TS 22.105 v6.2.0 (2003-06).  |  |
|                  | "Third Generation Partnership Project: Technical Specification Group Services and System Aspects; Quality of Services (QoS) Concept and Architecture (Release 1999)." 3GPP TS 23.107 v3.9.0 (2002-09).  |  |
|                  | "Third Generation Partnership Project: Technical Specification Group Services and System Aspects; Quality of Services (QoS) Concept and Architecture (Release 4)." 3GPP TS 23.107 v4.5.0 (2002-09).   |  |
|                  | "Third Generation Partnership Project: Technical Specification Group Services and System Aspects; Quality of Services (QoS) Concept and Architecture (Release 4)." 3GPP TS 23.107 v4.6.0 (2002-12).   |  |
|                  | "Third Generation Partnership Project: Technical Specification Group Services and System Aspects; Quality of Services (QoS) Concept and Architecture (Release 5)." 3GPP TS 23.107 v5.6.0 (2002-09).   |  |
|                  | "Third Generation Partnership Project: Technical Specification Group Services and System Aspects; Quality of Services (QoS) Concept and Architecture (Release 5)." 3GPP TS 23.107 v5.10.0 (2003-09).  |  |
|                  | Draft Supplement to STANDARD FOR Telecommunications and Information Exchange Between Systems – LAN/MAN Specific Requirements - Part 11: Wireless Medium Access Control (MAC) and physical layer (PHY) specifications: Medium Access Control (MAC) Enhancements for Quality of Service (QoS), IEEE Std 802.11e/D3.2, August 2002.  |  |
|                  | Draft Supplement to STANDARD FOR Telecommunications and Information Exchange Between Systems – LAN/MAN Specific Requirements - Part 11: Wireless Medium Access Control (MAC) and physical layer (PHY) specifications: Medium Access Control (MAC) Enhancements for Quality of Service (QoS), IEEE Std 802.11e/D3.3, October 2002. |  |
|                  | JAIN ET AL., "Supporting Quality of Service in Multiple Heterogeneous Wireless Networks," IEEE 55 <sup>th</sup> Vehicular Technology Conference, Volume 2, pp. 952-956 (May 9, 2002)  |  |
|                  | SIQUEIRA ET AL., "Quartz: QoS Architecture for Open Systems," Proceedings of the 20 <sup>th</sup> International Conference on Distributed Computing Systems, pp. 197-204 (April 2000).  |  |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|  |                                     |                          |
|--|-------------------------------------|--------------------------|
| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br>INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT<br>(Use several sheets if necessary) | ATTY. DOCKET NO.<br>I-2-0388.1US    | SERIAL NO.<br>10/679,804 |
|  | <b>APPLICANT</b><br>Hunkeler et al. |                          |
|  | FILING DATE<br>October 6, 2003      | GROUP<br>2461            |

<sup>1</sup>Corresponds to WO 01/58177; <sup>2</sup>Corresponds to KR 2002-0043591; <sup>3</sup>Corresponds to KR 2001-0042426.

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.